1		22.63	.Vertical rack
1	ARTICLE MANIPULATOR MOVES	22.64	Compensating for support shift
	ANALOGOUS WITH HUMAN HAND,	22.01	(e.g., ship roll, etc.)
2	FINGER, OR ARM MOVEMENT	22.65	Pivotal carriage
2	.Motion of hand, finger, or arm member multiplied or reduced	22.66	Carousel
	in its transmission to article	22.67	Pivotal derrick
	manipulator means	22.68	With laterally guided pipe or
3	.Having means to transmit motion	22.00	rod support
3	through an imperforate barrier	22.69	On inclined derrick mounted
4	Electric or fluid motor drive	22.05	track
I	for manipulator	22.71	Both upper and lower pipe or
5	Having means to transmit	,_	rod holding and guiding means
3	feedback signal from	23	POLE OR TREE HANDLERS
	manipulator means to hand,	24	GLASS CYLINDERS
	finger, or arm	24.5	ROUND HAY BALE HANDLING
6	For grip force amplification	24.6	.Unrolling
7	.Having flexible motion	25	HAY DISTRIBUTORS
,	transmission means	26	TOBACCO STRINGERS OR UNSTRINGERS
8	.Having sealing or radiation	27	APPARATUS FOR STRINGING ARTICLES
0	shielding means	21	ON A SUPPORT IN ABUTTING
9	HUMAN BODY OPERATED EATING AID		RELATION
10	APPARATUS FOR MOVING MATERIAL TO	788	APPARATUS FOR MOVING
10	A POSITION IN THE ERECTION OR	700	INTERSUPPORTING ARTICLES INTO,
	REPAIR OF A BUILDING		WITHIN, OR FROM FREESTANDING,
11	.Flat wall or ceiling member		ORDERLY LAYERED, OR MUTUALLY
	manipulating means		STABILIZING ORDERLY GROUP
12	.Boxlike building module	788.1	.Stack forming apparatus
12	manipulating means	788.2	Stacking tapered or nestable
13	LAUNDRY HANDLING DEVICE	700.2	articles
14	STOCK PULLING OR PUSHING	788.3	And varying orientation of
15	.With means ejecting stock	700.3	tapered articles in stack
13	remnant	788.4	Takes articles for stack from
16	.With additional diverse motion	, 00.1	another group
10	of stock	788.5	And turns article about
17	.With fluid pressure actuated	,00.3	horizontal axis
Ι,	pushing or pulling means	788.6	And turns plural articles as a
18	.Stock end face pushers	, 00.0	unit about vertical axis
19	For sheet stock	788.7	And transports articles
20	.Sheet stock lead end pullers	, 00. ,	through working, treating, or
21			inspecting station located
22.51	WITH WEIGHING WELL PIPE OR ROD RACKING		therebetween
ZZ.JI	MECHANISM	788.8	Including separate unstacking
22.52			means
22.52	.With slope change	788.9	With means vertically aligning
22.53	For nonvertical drillingHorizontal to/from vertical		stack being formed
		789	And acting as discharge gate
22.55	Boom pivoting about horizontal	789.1	Powered means (e.g., jogger,
22 56	axis		etc.)
22.56	Pivoting derrick	789.2	Forms layered stack or row and
22.57	Guided skate or pusher	, 0, , 2	then upends it
22.58	Pipe or rod guide	789.3	Tiers or layers formed and
22.59	Guided skate or pusher	,0,0	sequentially added to stack
22.61	Pipe or rod guide		prior to upending
22.62	.Horizontal rack		F 11 WEGINALIS

789.4	Includes means for crossing articles in layer	791.8	Leaves void between articles in layer
789.5	Inserts separator into stack	791.9	To facilitate insertion of
789.6	Plural article sources		handling means
789.7	Includes means on or linked	792	Crosses articles in adjacent
	with transporting vehicle for	F00 1	layers
789.8	forming and discharging stackCreates single stack by	792.1	Includes swingable pusher for turning article shoved to
	juxtaposing separately formed		layer
	tiers	792.2	With rotating stack support
789.9	With means for removing	792.3	Rotated between addition of
	completed stack from stacking		completed layers
	location	792.4	Turns completed layer about
790	Interfingers with stack		vertical axis before stacking
	support moving vertically	792.5	Offsets articles within
	relative to removing means	,,,,,,	parallel adjacent superposed
790.1	Articles received and stack		rows
	discharged at interfingering	792.6	Adds rows of articles to layer
	location	792.7	Positions lowest article of
790.2	Includes stack gripping device		stack first
790.3	Pusher	792.8	Includes horizontally
790.4	Includes carrier having		shiftable, article elevating
	distinct supports each		device
	successively receiving a stack	792.9	With article gripping means
	thereon	793	Includes suction-type article
790.5	Includes gravity unloaded		gripping means
	movable support	793.1	And endless belt for
790.6	And conveyor for receiving		transporting
	unloaded stack	793.2	Includes magnetic-type article
790.7	Includes driven conveyor		gripping means
	whereon continuously supported	793.3	And endless belt for
	stack is formed		transporting
790.8	With temporary support for	793.4	Includes support vertically
	incoming articles during		alignable with stack then
	discharge of stack		shiftable from beneath article
790.9	Stacks articles on different	793.5	Support carried or formed by
	supports		endless belt conveyor
791	And combines into single stack	793.6	With belt and article moving
791.1	Includes conveyor for feeding		vertically together above
	articles to sequentially		discharge
	formed stacks	793.7	And additional noncoaxial
791.2	Offsets or crosses adjacent		endless belt coacting
	articles in single article		therewith to support article
	wide stack		above discharge
791.3	Articles inverted in adjacent	793.8	Support adjusts vertically as
	levels or layers		height of stack increases
791.4	Layers	793.9	Support revolves around
791.5	Formed with sloped or stepped		central axis during shifting
	side		and return
791.6	Sequentially forms or adds	794	Support swings during
	completed layers		shifting and return
791.7	Offsets circular articles	794.1	Support travels vertically
	within adjacent rows of layer		spaced paths during shifting
			and return

794.2	Plural coacting supports shifting in opposite	796.9	Includes article gripping device
	directions	797	By suction
794.3	And movable stop engaging	797.1	By magnetic force
	article during shifting of support	797.2	Includes endless belt article separator
794.4	Includes endless belt for delivering	797.3	Includes rotary article separator
794.5	Having discharge vertically shiftable	797.4	Removes lowest article first from stack
794.6	Having discharge vertically shiftable as stack grows	797.5	Includes means for elevating remainder of stack therefrom
794.7	Includes pusher conveyor for delivering	797.6	Includes endless belt article separator
794.8	Includes roller conveyor for delivering	797.7	Includes rotary article separator
794.9	<pre>Positions highest article of stack first</pre>	797.8	Includes article separator with gripping device
795	Includes rotary deliverer	797.9	Includes pusher article
795.1	Coacting screws		separator
795.2	Includes means for raising	798	Includes movable stack support
	highest article and lowering		for gravity unloading article
	it upon newly delivered	798.1	And means for temporarily
	article		holding remainder of stack
795.3	Includes means raising article	798.2	.Positions intersupporting
	up to stack		article into row
795.4	.Unstacking apparatus	798.3	Takes article therefor from
795.5	Utilizes fluid blast to remove		another spaced group
	article	798.4	Tapered or nestable articles
795.6	Unstacking tapered or nestable		positioned
	articles	798.5	Includes revolving or swinging
795.7	With means vertically aligning		handler
	stack	798.6	And pusher conveyor for
795.8	With means replacing depleted		delivering
	stack	798.7	Includes pusher conveyor for
795.9	Removes complete tier from		delivering
	multitier stack	798.8	Includes nonpowered guide for
796	Separates stack into smaller		delivering
	stacks	798.9	.Removes intersupporting article
796.1	Removes smaller stack from		from row
	bottom	111	VEHICLE-CARRIED BALE ACCUMULATOR
796.2	Removes layer as unit	132	HAY STACK SHAPERS
796.3	And changes position or	133	COAL STORAGE TYPE
	orientation of articles within	137.1	MARINE LOADING OR UNLOADING
	layer		SYSTEM
796.4	With means for reorienting	137.2	.Loading or unloading aircraft
	article after unstacking		under marine conditions
796.5	Removes highest article first	137.3	Underwater loading or unloading
	from stack	137.4	.With weather cover
796.6	With means offsetting highest	137.5	.Marine vessel to/from well
	article prior to removal	137.6	.Marine vessel to/from air vessel
796.7	With stack elevating means	137.7	.Marine vessel to/from water
796.8	Pusher separates article from stack after elevation	137.8	Marine vessel to/from lighter to/from water
		137.9	.Marine vessel to marine vessel

138.1	With means to effect relative	141.4	Having swinging portion
	vertical movement of marine	141.5	On marine vessel
	vessel	141.6	By use of swinging crane
138.2	With means to compensate for	141.7	By use of hoist line
	relative marine vessel	141.8	By use of conveyor chute
	movement	141.9	.By use of screw conveyor on
138.3	Including means to sense		marine vessel
	position of marine vessel	142.1	.By use of endless belt conveyor
138.4	Line tension control		on marine vessel
138.5	Marine vessel to/from lighter to/from marine vessel	142.2	<pre>For "bulk" (e.g., granular, etc.) cargo</pre>
138.6	By use of endless belt	142.3	Belt extending parallel to
200.0	conveyor	142.5	marine vessel beneath cargo
138.7	Marine vessel to/from lighter		hold
	to/from shore	142.4	Sequential endless belts
138.8	With marine vessel holding or	142.5	Including orbiting bucket
200.0	moving device	142.6	
138.9	Serial marine vessels	142.0	on marine vessel
	supporting conveyor	142.7	.By use of swinging crane on
139.1	By use of endless belt	142.7	marine vessel
	conveyor	142.8	.By use of hoist line
139.2	One marine vessel towing the	142.9	Scoop or scraper on marine
	other	142.7	vessel
139.3	By use of endless belt conveyor	143.1	.By use of conveyor chute
139.4	.Marine vessel to/from shore	143.2	.Stowage arrangement on marine
139.5	Personnel loading or unloading		vessel
139.6	With means to compensate for	146	CHARGING OR DISCHARGING MEANS
	marine vessel movement		ADAPTED FOR USE IN A
139.7	Including means to sense		ADAPTED FOR USE IN A RADIOACTIVE ENVIRONMENT
139.7	Including means to sense vertical position of marine	147	
	Including means to sense vertical position of marine vessel (e.g., draft, etc.)	147	RADIOACTIVE ENVIRONMENT CHAMBER OF A TYPE UTILIZED FOR A HEATING FUNCTION AND MATERIAL
139.7	<pre>Including means to sense vertical position of marine vessel (e.g., draft, etc.)With marine vessel holding or</pre>	147	RADIOACTIVE ENVIRONMENT CHAMBER OF A TYPE UTILIZED FOR A HEATING FUNCTION AND MATERIAL CHARGING OR DISCHARGING MEANS
139.8	<pre>Including means to sense vertical position of marine vessel (e.g., draft, etc.)With marine vessel holding or moving device</pre>		RADIOACTIVE ENVIRONMENT CHAMBER OF A TYPE UTILIZED FOR A HEATING FUNCTION AND MATERIAL CHARGING OR DISCHARGING MEANS THEREFOR
	 Including means to sense vertical position of marine vessel (e.g., draft, etc.) With marine vessel holding or moving device Marine vessel to/from land or 	148	RADIOACTIVE ENVIRONMENT CHAMBER OF A TYPE UTILIZED FOR A HEATING FUNCTION AND MATERIAL CHARGING OR DISCHARGING MEANS THEREFOR .With alarm, indicator, or signal
139.8	 Including means to sense vertical position of marine vessel (e.g., draft, etc.) With marine vessel holding or moving device Marine vessel to/from land or rail vehicle distinct from 	148 149	RADIOACTIVE ENVIRONMENT CHAMBER OF A TYPE UTILIZED FOR A HEATING FUNCTION AND MATERIAL CHARGING OR DISCHARGING MEANS THEREFOR .With alarm, indicator, or signal .Driven, rotatable chamber
139.8 139.9	Including means to sense vertical position of marine vessel (e.g., draft, etc.)With marine vessel holding or moving deviceMarine vessel to/from land or rail vehicle distinct from system	148	RADIOACTIVE ENVIRONMENT CHAMBER OF A TYPE UTILIZED FOR A HEATING FUNCTION AND MATERIAL CHARGING OR DISCHARGING MEANS THEREFOR .With alarm, indicator, or signal .Driven, rotatable chamber .Including driven device and/or
139.8	Including means to sense vertical position of marine vessel (e.g., draft, etc.)With marine vessel holding or moving deviceMarine vessel to/from land or rail vehicle distinct from systemBy use of marine vessel to/	148 149	RADIOACTIVE ENVIRONMENT CHAMBER OF A TYPE UTILIZED FOR A HEATING FUNCTION AND MATERIAL CHARGING OR DISCHARGING MEANS THEREFOR .With alarm, indicator, or signal .Driven, rotatable chamber .Including driven device and/or inclined flow path to carry or
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158	Including screw, rotary, or rotating pusher, conveyor	180	Including apparatus to advance a material-supporting element
159	Including roller conveyor		to a point within chamber,
160	.Charging of chamber		release material, and retract
			element
161	With control system responsive to condition in chamber	181	With driven means to eject
162	Through plural ports in top of		material from element
	chamber	182	Element comprises tiltable,
163	From vehicle-carried hopper		material-underlying support
103	located above port	183	Receptacle separable from
1 (1			apparatus (e.g., for
164	With closures for ports and		refilling, etc.)
	means on vehicle to manipulate	104	_
	them	184	Receptacle tiltable about
165	By depositing material onto		axis parallel to direction of
	surface of glass melt		apparatus advance
166	With pushing device to move	185	Element comprises receptacle
	material therealong		having bottom outlet
167	By driven device for	186	Element comprises grab
107	1 2	187	Material accumulating and
	transporting material to a	107	holding structure, and driven
	stationary, at least in part,		,
	accumulating means for		conveyor therein serving to
	subsequent release into		move (e.g., eject, etc.)
	chamber by gravity		material from structure to
168	Receptacle moved back and		chamber
	forth along inclined way	188	Including wheeled carriage
	(e.g., skip, etc.)		for supporting the structure
169	Accumulating means includes	189	Driven conveyor comprises
	serially arranged closures		rotatable, pocketed gate
170	Each comprising bell of bell	190	Screw conveyor
170		191	Traversing hoist having
	and hopper type accumulating	191	
	means		material-underlying support or
171	Conveyor		material attracting or
172	By driven device for		gripping means
	transporting material to and/	192	Carrier-mounted, tiltable
	or into, or into and within,		receptacle
	chamber	193	Thrower
173	Plural, successive, driven	194	Reciprocating or oscillating
	devices	195	Rotary
174	Thrower and at least one	196	Conveyor
1/4		197	Screw
100	feeder conveyor therefor		
175	Including screw conveyor	198	Reciprocating pusher or
176	Including pusher conveyor		reciprocating conveying
177	Two or more conveyors, one		surface
	traversing open top, or	199	By material supporting
	opening in top of, chamber		structure movable, or having a
178	Receptacle moved back and		movable component, to release
	forth along inclined way		material into chamber by
	(e.g., skip, etc.)		gravity
170		200	Including serially arranged
179	Movably mounted conveyor	200	closures
	traverses open top, or opening	201	
	in top of, chamber	201	At least one comprising bell
			of bell and hopper type
			supporting structure
		202	\ldots .With means to improve seal
			between mating surfaces

203	Having bell and/or hopper mounted for rotation	222.01	APPARATUS FOR CHARGING A LOAD HOLDING OR SUPPORTING ELEMENT
204	Bell and hopper		FROM A SOURCE, AND MEANS FOR
205	With means to distribute		TRANSPORTING AND PRESENTING
	material after release from		ELEMENT TO A WORKING,
	structure		TREATING, OR INSPECTING
206	With means to distribute		STATION
	material after release from	222.02	.Condition responsive control of
	structure		transporting means
207	Comprising a tiltable material	222.03	.Portion of transporting means is
207	containing member		retarded or stopped with load
208	By inclined flow path		at station without being
			disconnected from remainder of
209	.Discharging of chamber by driven		transporting means
010	device	222.04	.Device engages load handling or
210	With means beyond chamber exit	222.01	supporting element or load on
	to move or guide material		element to align load at
	discharged therefrom by the		station
011	device	222.05	Device engages load holding or
211	Means comprises endless or	222.03	supporting element to fix
	rotary conveyor		element position relative to
212	Means comprises portable		station
	(e.g., vehicle mounted, etc.)	222.06	Device engages portion of
	material receiving chute	222.00	element which is separable
213	Device comprises screw conveyor		from transporting means to fix
214	Device comprises pushing or		position of portion of element
	pulling mechanism	222.07	.Means to convey load back and
215	Mechanism repositionable for	222.07	forth between initial location
	serving plural chambers		and station
216	.Discharging of chamber by	222.08	.Charging transporting means with
	gravity, and means beyond exit	222.00	load at station
	thereof to guide, move, or	222.09	.With simultaneous charging and
	stop material	222.07	discharging of plural load
217	APPARATUS FOR MOVING MATERIAL		holding or supporting elements
	BETWEEN ZONES HAVING DIFFERENT	222.1	With pusher
	PRESSURES AND INHIBITING	222.11	With conveyor
	CHANGE IN PRESSURE GRADIENT	222.12	With conveyorWith reciprocating arm
	THEREBETWEEN	222.12	
217.1	.For carrying Standarized	222.13	.Transporting means carries load
	Mechanical Interface (SMIF)		to at least one of a plurality
	type	222 01	of fixed stations
218	.Including screw conveyor	223.01	.Supply source capable of 360
219	.Including trap chamber having	222 22	degrees revolution
	horizontal axis of rotation	223.02	.Supply source capable of
220	With means for changing		reversible 180 degrees
	pressure in trap chamber	224 01	revolution
221	.Including serially arranged	224.01	.Supply source includes chute
	valves in path having a	225.01	Load holding or supporting
	vertical component (e.g.,		element including gripping
	airlocks, etc.)	226 21	means
		226.01	Plural grippers for plural elements
		226.02	Gripper includes pivoted jaw
		226.03	.Including plurality of supply
			sources for single element

226.04	.Device engaging transporting means or source to align	239	One or more separate supporting members and means
226.05	element relative to source .Transporting means is a horizontally rotated arm		<pre>to impart independent, linear or partly linear, movement thereto</pre>
227	APPARATUS PARTICULARLY ADAPTED FOR CHARGING OR DISCHARGING A FACILITY COMPRISING ONE OR MORE SITES FOR THE PARKING OF	240	Member moving from particular location to discharge and/or receive vehicle, and returning thereto
	WHEELED VEHICLES	241	With means to transfer vehicle
228	<pre>.Facility includes structure (e.g., ramp, angularly related successive locations for a</pre>	242	<pre>to or from supporting memberOn driven, plural-site carrier initially receiving vehicle</pre>
	<pre>vehicle, etc.) necessitating self-propellability or steerability of vehicle</pre>	243	<pre>With loading means, external to carrier, at facility entrance</pre>
229	Upwardly inclined, pivotable parking site for receiving driven vehicle	244	Serving also movable site on subsequent driven carrier, or fixed site
230	Caused to pivot by advancing vehicle	245	By moving linearly in a horizontal direction
231	.With control system responsive to changeable operating instructions	246	<pre>And moving vertically (e.g., laterally shiftable elevator, etc.)</pre>
232	.With means to sense condition of site	247	By moving linearly in vertical direction or orbiting
233	.Including one or more movable sites	248	in vertical planeEndless carrier having sites
234	Vehicle assigned to particular supporting member (e.g.,	0.40	attached thereto (e.g., suspended therefrom, etc.)
	<pre>platform, dolly, cage, etc.) having some degree of independence either as to</pre>	249	<pre>Moving linearly in vertical direction or orbiting in vertical plane</pre>
	means, time, or direction of movement	250	<pre>Revolving about single, horizontal axis</pre>
235	<pre>Supporting member separable from endless, member- transporting carrier, or</pre>	251	<pre>Endless carrier having sites attached thereto (e.g., suspended therefrom, etc.)</pre>
	<pre>disengageable from endless drive means, and movable away therefrom for receiving, discharging, or storing vehicle</pre>	252	.With vehicle storage or retrieval system responsive to manual designation of destination
236	Plurality of supporting members moved in recirculating fashion by succession of	253	.With means to transfer, or facilitate transfer of, vehicle from carrier to site or vice versa
000	driving devices	254	Including sets of intermeshing
237	Path of moving member describes generally		support elements having relative vertical movement
238	rectangular loopSuccessive devices each	255	By exerting upward, in addition to generally horizontal, force
	include endless, member- driving element (e.g., belt,	256	And forming sole support for vehicle
	cable, chain, etc.)	257	Complementary, driven, vehicle- supporting conveyors on carrier and site

258	Tiltable or inclined means for supporting vehicle on carrier or site	275	With means to detect obstruction and alter movement of charging or discharging
259	By exerting generally horizontal force	276	meansInclined members
260	Comprising component of carrier having both horizontal and vertical paths of travel	277	Charging or discharging means includes load sustaining surface and device to transfer
261	.Carrier-facility-site relationship		<pre>load, with horizontal component of movement, from or</pre>
262	Route to site utilizes plural carriers	278	to surface or memberDevice comprises one or more
263	Sites arranged radially of carrier rotatable in whole or		conveyors of driven roller or endless apron type
264	in partSites arranged in superposed,	279	<pre>Device includes self-powered, track-guided car</pre>
	longitudinal rows and in confronting relationship to	280	Device includes push-pull mechanism
265	carrier in intervening aisle GUIDED, WHEELED DEVICE FOR	281	Charging or discharging means includes elevating device,
	TRANSPORTING MAIL AND EXTERNAL MEANS COOPERATING THEREWITH FOR LOADING OR UNLOADING THE DEVICE		movable in horizontal direction (e.g., portable, etc.), having load-sustaining surface
266	PLURAL, STATIC STRUCTURES FOR SUPPORTING DISCRETE LOADS AND CHARGING OR DISCHARGING MEANS	282	Including additional means to move surface horizontally relative to device
	THEREFOR	283	Pivotably or rotatably
267	<pre>.Load-underlying members (e.g., racks, receptacles (or a compartmented receptacle), shelves, troughs, etc.)</pre>	284	With detachably associated auxiliary carrier for transporting device during portion of its horizontal
268	With means for selectively		travel
	charging a plurality of receptacles from a single source, or selectively discharging a plurality of	285	Charging or discharging means comprises plural endless conveyors or plural runs of single endless conveyor
	receptacles to a single	286	With load-supporting pallet
0.60	destination	287	STATIC RECEPTACLE OF A MATERIAL
269	Charging a plurality of receptacles		CONDITIONING TYPE AND MEANS TO MOVE, OR FACILITATE MOVEMENT
270	Condition responsive		OF, MATERIAL TO, WITHIN, OR
271	By driven conveyor having gated discharging locations	288	FROM THE RECEPTACLE STATIC RECEPTACLE AND MEANS FOR
070	spaced therealong		CHARGING OR DISCHARGING, OR FACILITATING THE CHARGING OR
272	<pre>By conveyor movable (e.g., pivotable, etc.) to reposition</pre>		DISCHARGING OF, THE RECEPTACLE
	outlet thereof	289	.With alarm, indicator, or signal
273	With control system responsive to changeable operating instructions	290	.Receptacle contains liquid in which charge is submergibly sealed
274	With means on charging or discharging means to determine status of member	291	.With means to handle (e.g., recirculate, remove, etc.) dust

292	.With means to seal receptacle in	313	Having compound motion
	vicinity of entrance for charging or discharging means		assistant operating on top of material
293	.Charging or charge-distributing	314	Including wall cleaning means
293	means	315	Condition responsive
294	Condition responsive	316	To maintain material surface
295	Position of charging means	310	horizontal
223	controlled by level of	317	Route of material being
	material in receptacle	317	discharged includes vertical
296	Drive means of charging		segment through remainder of
	conveyor controlled by level		charge
	of material in receptacle	318	With conveyor extending to
297	With means to ream or cut, or		discharge opening in sidewall
	with collapsible means to		of receptacle
	form, vertical discharge	319	Screw-type pickup conveyor
	passage in material during	320	Including plural screw
	charging		elements
298	Serving also to discharge	321	Including means for
	receptacle		loosening packed material
299	Terminal portion of means	322	Means for displacing
	comprises gravity flow path		assistant involves driven,
300	(e.g., chute, etc.)		wheel-like, support member
300	Having charge distributing means of driven type	323	rolling on surface of material
301	Rotary type	323 324	Condition responsiveIncluding flail
302	Having one or more conveyors	325	Including one or more driven
302	rotatable about a vertical	323	conveyors located within or
	axis at an end thereof		partly within receptacle for
303	Charging a static receptacle by		making initial pickup of
	gravity flow from a portable		material
	load carrier	326	At least one of screw type
304	.Nongravity discharging means	327	At least one of endless type
305	Including at least one	328	.Gravity discharge of a gated,
	discharge assistant of the		static receptacle to one or
	compound motion type		more vehicle-mounted receivers
306	Having compound motion	329	Located on moving vehicle
	assistant located proximate to	331.01	MOVABLE RACK HAVING SUPERPOSED,
	bottom of receptacle and		CHARGE-SUPPORTING ELEMENTS,
	<pre>displaceable generally parallel thereto</pre>		AND EXTERNAL MEANS FOR
307	Condition responsive		CHARGING OR DISCHARGING ELEMENTS
308	Assistant separable from	331.02	Rotating or circulating rack
300	receptacle	331.02	Charge-supporting elements
309	Pivotably displaceable	331.03	moving horizontally
	assistant and member for	331.04	Charge-supporting elements
	shielding its fixed end		moving vertically
310	Comprising screw conveyor	331.05	Rack as a unit rotating about
311	Including means for		vertical axis
	loosening packed material	331.06	.Wheeled rack
312	Having receptacle-reacting	331.07	Simultaneous charging or
	element of displaceable-		discharging of charge-
	movement drive means located		supporting elements
	on conveyor	331.08	Charging or discharging means
			is a pusher

331.09	Charging or discharging means is a conveyor	338	WHEELED, LOAD-TRANSPORTING TYPE VEHICLE UTILIZES ITS
331.1	Charging or discharging means is a reciprocating arm		UNINTERRUPTED, FORWARD MOTION TO CAUSE AN EXTERNALLY
331.11	Charging or discharging means having elevating means to		SUPPORTED LOAD TO BE TRANSFERRED TO IT
	<pre>present load at a predetermined level</pre>	339	WHEELED, LOAD-TRANSPORTING TYPE VEHICLES FORMING A TRAIN, AND
331.12 331.13	Rack formed by rotatable screws Rack moved by conveyor relative		LOADING OR UNLOADING MEANS THEREFOR, LOCATED AT LEAST IN PART THEREON
331.14	to charging or discharging means .Rack moved vertically by	340	WHEELED, LOAD-TRANSPORTING TYPE VEHICLES AND MEANS FOR
331.15	elevating meansHaving means for detecting		TRANSFERRING, OR ENABLING TRANSFER OF, LOAD FROM ONE
331.16	presence of article on rackCharging or discharging means	341	VEHICLE TO ANOTHER .By additional load-supporting
331.17	is a pusherCharging or discharging means		vehicle for moving with load from one load-transporting
331.18	is a conveyor Charging or discharging means	342	type vehicle to the otherAdditional vehicle comprises overhead traversing hoist
332	is a reciprocating arm RECEPTACLE HAVING CHARGING OR	343	.With means on each vehicle cooperating to effect, or
	DISCHARGING MEANS AND ADAPTED FOR RELOCATION FROM ONE TO	344	facilitate, transfer of load .With driven load engaging
333	ANOTHER OF A PLURALITY OF SITES OF INTERIM USE LOADING OR UNLOADING A RAILWAY		device, supported at least in part externally of the
333	CAR BY UTILIZING THE TRACTOR OF A TRACTOR TRAILER, LOAD-		vehicles, for moving load therebetween
	TRANSPORTING TYPE VEHICLE TO MANEUVER THE TRAILER, OR A	345	.Means is confined to one of the vehicles
	PART THEREOF, ONTO OR OFF THE CAR	346	Means comprises tiltable load- supporting portion
334	MOVING, WHEELED, LOAD- TRANSPORTING TYPE VEHICLE AND LOADING OR UNLOADING DEVICE THEREFOR, SUPPORTED AT LEAST	347	<pre>Means comprises elevatable load-supporting portion traveling in path including vertical, rectilinear movement</pre>
	IN PART INDEPENDENTLY OF THE VEHICLE AND TRAVELING	348	Having portion suspended from vehicle on overhead way
	THEREWITH DURING TRANSFER OF LOAD THEREBETWEEN	349	WHEELED, LOAD-TRANSPORTING TYPE VEHICLE HAVING DRIVEN MEANS
335	.Loading device having capability for controlling direction of output therefrom		THEREON FOR REPOSITIONING LOAD SUPPORTING PORTION OF VEHICLE TO CAUSE OR FACILITATE
336	.Suspendedly supported device		MOVEMENT OF LOAD TO OR FROM AN
337	WHEELED, LOAD-TRANSPORTING TYPE VEHICLE UTILIZES ITS	350	EXTERNAL COOPERATING MEANS .Load-supporting portion
	UNINTERRUPTED, FORWARD MOTION TO CAUSE AN EXTERNAL, LOAD-	251	pivotable about horizontal axis
	ENGAGING STRUCTURE TO REMOVE ITS LOAD	351	.Cooperating means comprises or includes a conveyor

352	WHEELED, LOAD-TRANSPORTING TYPE VEHICLE HAVING DRIVEN MEANS THEREON FOR ENGAGING AND	370	With nonaligned paths for approach and departure of vehicle
	MOVING LOAD HORIZONTALLY, OR WITH HORIZONTAL COMPONENT, TO OR FROM AN EXTERNAL COOPERATING MEANS	371	<pre>Axis of pivot or tilt of structure parallels longitudinal axis of vehicle thereon</pre>
353	.Cooperating means comprises or includes a conveyor	372	With movable element to clamp vehicle to structure
354	WHEELED, LOAD-TRANSPORTING TYPE	373	LOAD-TRANSPORTING TYPE VEHICLE
	VEHICLE AND EXTERNAL MEANS FOR SUPPORTING VEHICLE IN TOTO AND REORIENTING IT INTO LOAD-		AND EXTERNAL MEANS COOPERATING IN THE LOADING OR UNLOADING THEREOF
	RELEASING ATTITUDE	374	.Means decelerates moving,
355	.With driven carrier for		wheeled vehicle, load
256	receiving released load		continues to move and leaves
356	Endless-type conveyor	275	vehicle
357	.Vehicle of rail-guided type and track section having rails	375	.Means agitates, shakes, or vibrates wheeled vehicle or
	configured to tilt or invert vehicle as result of moving		load therein to loosen load for departure from vehicle
	thereonto or progressing therealong	376	.Involving movement of load by gravity from wheeled vehicle
358	.Vehicle-holding member rollable	377	Means initiates unloading of
	<pre>along underlying support (i.e., axis of pivot of vehicle travels laterally)</pre>		<pre>vehicle of type having load body, or other load holding means, suspended therefrom</pre>
359	.Vehicle-holding framework	378	Bottom unloading body
	rotatable about fixed axis passing through framework and parallel to longitudinal axis of vehicle	379	Bucketlike body having horizontal, reciprocable movement, and flexible strand means for driving it in at
360	Including movable element to clamp vehicle to framework	380	least one directionFlexible strand means serves
361	With rotation responsive		also as initiating means
262	moving means	381	Tilting body
362	.Pivotably movable structure, at least initially in underlying relation to vehicle	382	About axis parallel to direction of vehicle travel
363	With means to agitate vehicle or its load	383	Means cooperates with motion of vehicle to reorient load body,
364	With means for shifting axis of pivot or tilt of structure in	384	relative to wheels, into load releasing attitudeBy pivoting body about axis
365	vertical directionWith means to affect exit of		parallel to longitudinal axis of vehicle to unload from side
	load from vehicle	385	Means comprises driven device
366	Axis of pivot parallels longitudinal axis of vehicle		for raising one end of vehicle upwardly relative to other end
367	With means to retard or stop vehicle approaching structure	386	thereofMeans comprises driven device
368	With means to guide departing load toward vehicle exit		for engaging and moving pivotable load body relative
369	With means to operate vehicle- mounted closure member		to remainder of vehicle

387	Means comprises device or	404	.For emptying contents thereof
	structure for cooperating with	40=	into portable receiving means
	<pre>motion of vehicle to initiate relocation of body component</pre>	405	By inverting both receptacle
	(e.g., floor or floor section,		and receiving means in order to transfer contents from one
	gate, etc.) thereof		to other
388	Component comprises oppositely	406	Having receiving means mounted
	swinging, operatively		on wheeled vehicle
	interconnected gates	407	With closure for receiving
389	.Means comprises structure for		means and receptacle-
	cooperating with a maneuvering, wheeled vehicle		responsive operating means for
	to engage and acquire a load	408	<pre>closureDevice includes vertically</pre>
	therefrom or to give up a load	400	swinging arm and receptacle
	thereto		support pivotably attached
390	.Of driven type, for unloading a		thereto
	wheeled vehicle	409	Device includes track-guided,
391	Including load raising or		receptacle-supporting carrier
200	lowering device	410	Device includes haulage cable
392	Having means for also moving load laterally	411	.With container opening means
393	With flexible, load-	412 413	Rupturing or cutting type
373	underlying element or surface	413	.Successive dumping from conveyed stack
394	With bucket or scoop-type	414	.With gate or closure-type
	holder		discharge control means
395	Including load pushing or	415	.With jarring means
206	pulling device	416.01	.Nongravity type
396	With additional means for aligning vehicle and an	416.02	Changes spacing between articles
	external load support	416.03	Horizontal movement of
397	.Means comprises repositionable		receptacle contents
	<pre>supporting and/or guiding structure (e.g., chute, etc.)</pre>	416.04	Ejector
	for conducting load moving by	416.05	Receptacle moved on conveyor
	gravity to a wheeled vehicle	416.06	<pre>past emptying deviceReceptacle unloaded while in</pre>
398	.Power-driven conveyor for	410.00	motion
	loading a wheeled vehicle	416.07	Articles removed in layers
399	.Raising or lowering device of	416.08	Receptacle has spaced article
	driven type for loading a		supports
400	wheeled vehicle .Pushing or pulling device for	416.09	Ejector
400	loading a wheeled vehicle by	416.1	Article support deformed
	exerting a generally	416 11	during load ejection
	horizontal force on load	416.11	Article lifted from receptacle and subsequently pushed
401	.Means serves to align wheeled		horizontally
	vehicle and load receiving or	416.12	Receptacle lowered onto
402	relinquishing structure .Means comprises stationary guide		support to eject article
402	or fixed anchor for		therefrom
	cooperating with loading or	418	.Orienting endless, roller, or
	unloading means located, at	410	gravity conveyor
	least in part, on wheeled	419 420	.Rotary cradle
400	vehicle	420	Nonfixed pivotOscillated
403	DEVICE FOR EMPTYING PORTABLE	421	oscillated .Elevator type
	RECEPTACLE	423	Differentially operated cables

424	Coacting catch or support	462	VEHICLE ATTACHED AUXILIARY
425	.Upending (e.g., rocking or		CARRIERS
	tilting about end, etc.)	463	.For rim, tire, or wheel
799	APPARATUS FOR POSITIONING PLURAL	464	Plural
	ORDERLY ARTICLES ONTO PALLET	465	Movement about spaced pivot
426	WHEEL AND WHEEL-TYPE ARTICLE		axes
	HANDLER AND TRANSPORTER	466	Simple arcuate or rectilinear
427	.Elevator-type engaging means		movement
428	.Vertically swinging article	467	SELF-LOADING OR UNLOADING
	engager		VEHICLES
429	.Opposed horizontally reciprocable engaging elements	468	.With load-receiving portion comprising horizontally
430	.Ramp-type truck		disposed, rotatable cylinder
431	ARTICLE ENGAGED BETWEEN ENDS FOR	469	.With load-receiving portion, or
	ROTATION AND ADVANCEMENT		significant section thereof,
432	.Driven, canted roll or ring		pivotable relative to
433	ARTICLE ROTATOR, ROLLER TYPE	4=0	horizontal
434	MOTION OR DRAFT RESPONSIVE LOAD	470	Having axis of pivot parallel
	HANDLER AND TRANSPORTER		to longitudinal axis of
435	.Movably connected vehicle		vehicle for side loading or
	sections (e.g., articulated,	171	unloading
	etc.)	471 472	Elevatable type
436	Vertically swinging	4/2	Discharge gate-carried loading
437	.Ground engageable means	473	meansInterrelated movements or
438	Lifting leg type	4/3	drives for load body and
439	Wheel operated		loading means
440	Locked to wheel	474	By adjustably attaching element
441	Elevator type	1/1	of running gear (e.g., wheel,
442	Vertically swinging support		axle, etc.) to load-receiving
443	Cable and drum actuated		portion, or support member
444	TILTING VEHICLE-TYPE HANDLER		(e.g., chassis, frame, etc.)
4.4.5	(I.E., PORTABLE GRAPPLE)		therefor, to enable relative
445	.Article actuated engaging means		movement therebetween
446	.Separable load rack	475	Element shiftable linearly
447	.Successive engaging means		toward front or rear of
448	.With band-type engager		vehicle
449	.Flexible strand attached load	476	Pivotably
450	gripper	477	Load-receiving portion also
450	Opposed movable jaw grippers		shiftable longitudinally
451	Slidable	478	With driven means to move load
452	Toggle-type operator		relative to portion
453 454	.Single movable jaw gripper	479	Means serves also to shift
454	With operating meansAdjustable		portion in at least one
	3		direction
456 457	Slidable .Rigid-type grapple engaging	480	Load-receiving portion includes
457			means which extends
458	means (e.g., hooks, etc.) OPPOSED SHELF-TYPE ELEVATOR AND		longitudinally therefrom to
430	TRANSPORTER	401	form ramp when portion pivots
459	.Load bridging vehicle	481	Trailer-type vehicle and
460	LOAD BRIDGING VEHICLE		adjustable or removable tow-
461	.Removable transverse load		<pre>engaging structure associated therewith enabling lowering of</pre>
-0T	support		forward end of vehicle for loading

482	Trailer-type vehicle having	505	Pivotally
	load-receiving portion	506	.Winch and idler-pulley-
	pivotable relative to at least		traversing haulage cable for
	one other component of vehicle		ejecting load from vehicle
483	About joint or other	507	.Conveyor
	connection in structure (e.g.,	508	With worker support
	drawbar, frame, etc.) normally	509	Comprising load-engaging
	extending linearly, or	307	element reciprocably movable
	planarly, from tow-engaging		
	end of vehicle to axis of		parallel to generally
	wheels of vehicle, and		horizontal load-supporting
	relative to said end		component of vehicle for
484	About axis located between or	-10	ejecting load therefrom
404		510	Three-dimensional load-
	adjacent to wheel sets of		receiving portion includes
	vehicle having plural,		movable load-underlying
	tandemly arranged sets of rear		surface, and element comprises
	wheels, and relative to tow-		upright member attached to
	engaging end of vehicle		surface
485	About axis of wheels of	511	Pusher moved by ram movable to
	vehicle having two wheels, and		different positions along
	relative to tow-engaging end		load-supporting platform
	of vehicle	512	Plural pushers on same vehicle
486	With means to raise load above	513	Pusher guide means
	load-receiving portion for	514	Pusher moved by flexible means
	deposit thereon or therein	515	Connected to winch
487	Including receptaclelike	516	Connected to ram actuated by
	(e.g., bucket, scoop, etc.)		fluid pressure
	holder for load	517	Pusher moved by ram actuated
488	Comprising driven conveyor	31,	by fluid pressure
489	With driven conveyor to receive	518	Power-driven with cooperating
	load departing from pivoted	310	handling means
	load-receiving portion	519	With gate means
490	Two wheel, manually propelled		_
	vehicle pivotable about axis	520	Multiple gates
	of wheels (e.g., hand truck,	521	With movable upright plate
	etc.) and provided with	522	Laterally movable rigid
	attendant-operated, load-		platform type
	handling means	523	Shiftable or removable conveyor
491	With driven means to move load		unit
171	relative to load-receiving	525.1	Reciprocating type
	portion	525.2	Compactor vehicle including
492	Including pusher element		compacting plate
493	Pivotably mounted element	525.3	Reverse-flow ejection
		525.4	Sequentially acting
494	Including haulage cable		compacting plates or with
495	.Having elevating load body		closure over compacting plate
496	With traversing hoist	525.5	Compacting plate movable
497	With reciprocating conveyor		along controlled arc
	(e.g., ejector type, etc.)	525.51	Including moving compacting
498	.Separable load rack	323.31	plate pivot
499	Conveyor operated	525.52	Plate pivot moves
500	Cable operated	J4J.J4	rectilinearly
501	.Successive handling means	525.53	-
502	Power-driven conveyors	5∠5.53	With pivot-effecting
503	Movably mounted		hydraulic cylinder carried on
504	Universally		pivot
	=		

525.54	Pivot carried by arm turning about fixed second	545	Carrier comprises movable component of load-receiving
505 55	pivot		portion (e.g., tailgate,
525.55	Sequentially acting	F 4.6	section of floor, etc.)
	compacting plates or with	546	Raising or lowering of load or
	closure over compacting plate		load holder includes
525.6	Rectilinearly reciprocating		curvilinear movement
	compacting plate	547	Pivotable, telescopic arm
525.7	Vibratory		imparts path of plural radii
525.8	Detachable vibrator	548	Unloader actuated by gravity-
525.9	Walking beam		influenced load
526	Screw type	549	Carrier or mover includes
527	Flexible conveyor type		means enabling additional
528	Endless		movement of a rectilinear
529	Load-engaging roller or		nature in a direction other
	rollerway		than vertical
530	With means for locking roller	550	Carrier or mover includes
	against rotation		means enabling additional
531	With separate means movable		movement about a vertical axis
332	vertically between load	551	Load holder located relative
	supporting and retracted		to vehicle in such manner as
	positions		to accrue load during travel
532	Shiftably or removably		of vehicle
332	supported on vehicle	552	Carrier or mover pivots about
533	Roller connected to support		axis parallel to longitudinal
555	pivotally mounted on vehicle		axis of vehicle
	base	553	Load holder or portion
534	-5-1-15-5		thereof has additional axis of
554	Support pivotal about horizontal axis		pivot relative to swinging
535			arm-type carrier or mover
	Vertically shiftable	554	Load holder pivotable about
536	With means for preventing		lower edge of opening in end
	movement of load relative		of load-receiving portion
F 2 7	thereto	555	With means to grasp load
537	Skidway	556	Carrier comprises movable
538	With haulage means (e.g.,		component of load-receiving
	cable, etc.)		portion
539	.Loading or unloading by other	557	Tailgate
	carrier or mover means, and	558	Carrier movable to storage
	the load movement thereof		position beneath vehicle
540	Raising or lowering of load or	559	Loading by haulage cable
	load holder includes vertical,	337	imparting principally
	rectilinear movement		horizontal movement to load or
541	And carrier or mover includes		load holder
	means enabling additional	560	TRAVERSING HOIST TYPE
	movement having horizontal	561	.Traveling crane
	component	562	_
542	Hoist having traversing		Switch system
	(i.e., horizontal) movement	563	.Tow truck type
543	Having boom pivotable about	564	HOIST OR ELEVATOR AND ENDLESS OR
	a vertical axis	5.65	ROTARY CARRIER
544	Elevator with laterally	565	VERTICALLY SWINGING SHOVEL AND
	shiftable guides		AUXILIARY CARRIER
		566	.Vertically swinging shovel
			having an orbital path

567	VERTICALLY SWINGING LOAD SUPPORT	585	Moong includes a load engaging
307	AND ENDLESS OR ROTARY CARRIER	363	.Means includes a load-engaging surface or element for pushing
568	.For handling bottles		load from vehicle
569	VERTICALLY SWINGING LOAD SUPPORT	586	DEVICE OR ELEMENT ASSOCIATED WITH
309	AND HOIST OR DRAG LINE	300	THE HANDLING OR MOVING OF A
570	ENDLESS OR ROTARY CARRIER AND		CHARGE FOR A HEATING-TYPE
370	DRAG LINE SCOOP		CHAMBER
571	SKIDWAY WITH HOISTING ROPE	587	.Charge leveler
572	LOAD-TRANSPORTING TYPE VEHICLE TO	588	Of rotary type
0,2	BE LOADED OR UNLOADED, OR	589	LOAD SUPPORT HAS LINEAR VERTICAL
	EXTERNAL MEANS FOR THE LOADING		MOVEMENT AND ADDITIONAL
	OR UNLOADING, OR FOR		MOVEMENT FOR ALIGNING AND
	COOPERATING THEREWITH, OF SUCH		MOUNTING LOAD AT A SPECIFIC
	A VEHICLE		LOCATION
573	.Means includes driven carrier	590	.Additional movement is
	for receiving a load from a		rotational
	vehicle at an unloading	591	GUIDED HOIST WITH LOAD-SUPPORTING
	station		GRAB MEANS MOVABLE
574	Endless apron-type conveyor		HORIZONTALLY BY MEANS WHICH
575	.Means comprises device for		SWINGS HORIZONTALLY OR MOVES
	changing the attitude of a	592	LINEARLY
	<pre>vehicle, or its load body, relative to the horizontal for</pre>	394	ELEVATOR OR HOIST AND LOADING OR UNLOADING MEANS THEREFOR
	unloading by gravity	593	.Mail
576	Framework for holding a	594	.Load lowering, automatic return
370	vehicle, pivotable about fixed	595	.Inclined track
	axis through framework	596	Ditching type
	parallel to longitudinal axis	597	Pivoted track
	of vehicle	598	Tilting carrier
577	Pivotably movable structure for	599	Tilting track section
	supporting a vehicle in toto,	600	Running out from base
	positioned, at least	601	Return, buffer, or
	initially, in underlying		counterweight feature
	relation thereto	602	Return, buffer, or
578	With means for adapting		counterweight feature
	structure to accomodate more	603	Skeleton or fork
	than one length of vehicle	604	Outhaul feature
579	With fluid or mechanical	605	Carrier running out from base
	friction brake to regulate	606	.Magnet and grab
EOO	movement of structure	607	.Convertible attachment
580	With means for limiting longitudinal movement of	608	.Separable rack
	vehicle on structure	609	.With external cooperating
581	Having axis of pivot parallel		movable feeding or discharging
301	to longitudinal axis of		means
	vehicle	610	Elevator carrier movement
582	By raising one end of a vehicle		responsive
	relative to other end thereof	611	Vehicle handling
583	Including a vertically	612	Loading means
	swinging, lifting member	613	Flow control mechanism (i.e.,
584	.Means comprises device or member		volume)
	for moving or causing movement	614	Trap chamber type
	of either a vehicle or a load	615	Movable to feeding position
	receiving or relinquishing	C1 C	over carrier
	structure for an alignment	616	Valved carrier
	purpose		

617	Adjustably mounted discharge	648	Camming trackway
	guide	649	Adjustable
618	.Grab	650	Yoke suspended carrier
619	Cantilevered type (e.g.,	651	Tethered type
	industrial truck, etc.)	652	Abutment or limit stop
620	Movable about horizontal axis	653	Swinging
621	Movable rigid jaw clamping type	654	Engageable upon reversal or lowering of carrier
622	Horizontal support with	655	Cantilevered carrier
	coacting element or holddown	656	Carrier and guide supported
623	Multiple article or rack type		cooperating elements
624	Clamshell	657	.Valved
625	Guided	658	Cam or abutment operated
626	Suspended	659	.Comprising device on carrier to
627	Suction gripper type		move or carry load laterally
628	.Elevator wherein means comprises		thereto or therefrom
	guide mounted for relative	660	Device raises load relative to
	<pre>movement, and tiltable carrier thereon</pre>		carrier prior to moving it laterally
629	Portable (e.g., vehicle-	661	Push-pull device
	mounted, etc.) elevator	662	.Comprising means enabling
630	.Elevator wherein means comprises		additional movement of carrier
	guide mounted for relative movement		or portion thereof relative to its support
631	Portable (e.g., vehicle-	663	On portable (e.g., vehicle-
001	mounted, etc.) elevator		mounted, etc.) elevator
632	Having one or more axes of	664	Carrier comprises spaced,
002	pivotable movement	001	elongated, horizontally
633	Including vertical axis		coplanar, load-supporting
634	Single axis, horizontal and		members, at least one being
031	fixed		movable
635	With fluid drive for	665	Pivotable in horizontal plane
033	movement thereabout	666	And otherwise movable
636	And means for limiting the		therein
050	movement	667	Shiftable in horizontal plane
637	Having one or more axes of		perpendicularly to axis of
03,	pivotable movement		elongation
638	Single axis, horizontal and	668	Carrier comprises spaced, elongated, horizontally
	fixed		coplanar, load-supporting
639	.Tilting carrier		members, at least one being
640	With operator-controlled		movable
	tilting means	669	Pivotable in horizontal plane
641	Portable (e.g., vehicle-	670	And otherwise movable therein
	mounted, etc.) elevator	671	
642	Tiltable about axis	0/1	Shiftable in horizontal plane perpendicularly to axis of
	perpendicular to direction of		elongation
	travel of portable elevator	672	Carrier comprises swingable or
	(e.g., forwardly tiltable,	0 / 2	rotatable, load-underlying
642	etc.)		surface
643	Sectional platform type	673	.Return, buffer, or counterweight
644	Valved	0,5	feature
645	Latch release	674	.Automatic stop
646	With carrier engaging cam means	675	COUNTING AIDS
647	Cantilevered carrier		

C7.C		700	
676	ARTICLE SUPPORTED BY AIR AND	708	By hydraulic compensation
	MOVED BY MECHANICAL OR MANUAL MEANS	709	By tensioned flexible connector
677	FEED TABLES FOR SHEARING MACHINES	710	By linkage pivoting on base
678	LAND VEHICLE OR BOAT TILTING AND	0	support
0.0	LIFTING DEVICES	711	Yoke mounted shovel or fork
679	VEHICLE WITH LOAD-RECEIVING	712	Linkage extensible for other
013	PORTION AND MEANS FOR	7 1 2	tilting
	RELOCATING A LOAD THEREALONG	713	Swinging support mounted
	OR THEREWITHIN	0	linkage
680	VERTICALLY SWINGING LOAD SUPPORT	714	Induced by swing of swinging
681	.Track-supported rocker		support
682	Horizontally swinging	715	By extensible link between
683	.Cement mixer loader	7 ± 3	load engager and swinging
684	.Coil handler		support
684.3	.Door remover	716	Holdable in different pitch
685	.Shovel or fork type	710	positions during loading
686	With means to facilitate	717	On unlatching from swinging
	attachment of boom to vehicle		support
687	Horizontally swinging	718	Extensible support
688	Vertically adjustable	719	Return, buffer, or
689	Trolley supported pivoted		counterweight feature
	handle	720	Spring
690	Reciprocating handle	721	Hay retainers
691	Link supported	722	Shovel, rake, handle, or boom
692	Tilting		structure
693	Single cable for crowding and	723	With means to facilitate
604	hauling		attachment of shovel or rake
694	Handle pivoted to boom	704	to handle or boom
695	Adjustable horizontal swing axis	724	Handling device releasably attached to bucket or rake
695.5	Linear cylinder	725	Means for ejecting load from
695.6	Flexible connector	0	shovel
695.7	Rack and pinion	726	Shovel forming members pivoted
695.8	Rotary motor	, 20	relative to each other to dump
696	Rotary motor		load
697	Tilting	727	Handle body structure
698	_	728	.With rectilinear translation
	Including indicator	729	.Grab
699	Control means responsive to sensed condition	730	Programmable or condition
700		750	responsive means controls grab
700	To maintain pitch during swinging		operation
701	To stop tilting at selected	731	With auxiliary support for load
	angle	732	Grab movable relative to its
702	Overshot type		supporting arm
703	Swinging member attached to	733	Grab orientation maintained
	rear mounted draft member		during supporting arm manipulation
704	Including load ejector,	734	Grab suspended to swing
- 0-	striker, or retainer	134	freely
705	Laterally tiltable or	735	-
	shiftable shovel or fork	133	Grab has swinging movement in
706	During swinging to stabilize	736	plural planesMovable grab support has
	pitch	130	
707	On link mounted swinging		plurality of grabs attached thereto
	support		CHCLCCO

737	Grab is a suction or magnetic article engaging means	749.3	<pre>.Including a detector for altering load path (e.g.,</pre>
738	Grab supported and moved by a	749.4	stop, redirect)
720	pivotably mounted member	749.4	.Multiple loads, rotatable into
739	Grab has pivoted jaw member		various positions (e.g.,
740	With fixed jaw member	740 5	indexing)
741	Grab has reciprocating jaw member	749.5	.Multiple loads, having means spacing one load from another
742	.Nonfixed pivot	DE1 1	load
743	.Tilting carrier	751.1	.Having gripper means
744.1	HORIZONTALLY SWINGING LOAD	752.1 753.1	Using suction
	SUPPORT		Pivoted jaw type
744.2	.Swinging about pivot	749.6	.Including aligning structure
744.3	And moving vertically		(e.g., rollers and rails,
744.4	Moving pivot		dovetail joint, rod and
744.5	Pivot swinging about second	554	channel)
	pivot	754	ARTICLE REORIENTING DEVICE
744.6	And moving load support	755	.Article reoriented by contact
	radially with respect to pivot		with fluid means
744.7	And vertically reorienting load	756	.Article reoriented by flexible
	support		sling means
744.8	With means to actuate load	757	.Article frictionally engaged and
	gripper		rotated by relatively movable
745.1	CYLINDRICAL BAR HANDLING DEVICE		means (e.g., disc, endless
745.2	.Vertical cylindrical bar		belt, etc.)
745.3	.Heat exchanger tube bundle	758	.Article inverting means (i.e.,
713.3	handling device		180 degree turnover)
745.4	.Pipe laying	759	Plural, driven turning means
745.5			coact sequentially to invert
743.3	Vehicle having supporting wheel or wheel substitute		single article
745.6	Side boom supported hoist line	760	Article slidably traverses
745.7			sloping surfaces on a
745.7	<pre>.Sequentially acting, diverse handling devices</pre>		plurality of pivotally mounted
745.8			turning means
745.0	Changing orientation of	761	Inverter has plural means for
745 0	cylindrical bar		receiving articles
745.9	Including ramp and elevator	762	Having article inserting or
546 1	means		discharging means
746.1	Oscillating or reciprocating	763	Having article gripping means
- 44	elevator	764	Encircling means inverts
746.2	Oscillating		article
746.3	Including means to rotate or	765	Having article inserting or
	allow rotation of bar about		discharging means
	its axis	766	Having securing means movable
746.4	.Including ramp and retractable	, 00	into engagement with the
	stop or ejector		article
746.5	.Engaging interior surface of	767	Encircling means moves about
	pipe	, 0 .	its transverse axis
746.6	.Comprising walking beam	768	Article turned about one end
746.7	.Comprising roller or endless	, 00	supported by a fixed or
	belt		rotatable abutment or by a
746.8	.Comprising carriage		surface frictionally retarding
749.1	LOAD CARRIED ALONG A HORIZONTAL		movement of the supported end
	LINEAR PATH (E.G., PICK AND	769	Article turned about a
	PLACE TYPE)	. • •	rotatable abutment
749.2	.Carried via magnetic floating		20000020 apacinette

770	Article turned about a fixed abutment means	804	.Of material charging or discharging of a chamber of a
771	Including coacting opposed movable arms		type utilized for a heating function
772	Article moved about perpendicular axes	805	.Of moving material between zones having different pressures and
773	Article received at one point and discharged at a different	806	<pre>inhibiting change in pressure gradient therebetween .Of charging load-holding or -</pre>
	point	800	
774	.Plural article turning members coact sequentially to reorient single article		supporting element from source and transporting element to working, treating, or
775	Article deposited on stationary		inspecting station
	supporting surface	807	.Of charging or discharging
	intermediate sequential		plural static structures for
	turning members		supporting discrete loads and
776	.Arm for orienting article is		utilizing charging or
	swingable about its transverse		discharging means therefor
	axis and is rotatable about	808	.Of charging or discharging, or
	its longitudinal axis		facilitating charging or
777	.Roller means circumferentially		discharging of static
	engages and supports orienter		receptacle
	for rotation thereon	809	.Of loading or unloading load-
778	.Article support means rockable		transporting type vehicle and
	on fixed surface		external means cooperating in
779	.Article support means rotates		loading or unloading thereof
	about a shiftable pivot point	810	.Of emptying portable receptacle
780	.Fixed member provides support	811	Nongravity type
	for article reoriented while	812	.Of charging or discharging self-
	in contact therewith		loading or unloading vehicle
781	.Article reoriented while fully	813	With conveyor
	supported by stationary	814	.Of loading or unloading elevator
	supporting surface		or hoist and including loading
782	.Article supporting carriage		or unloading means therefor
	moved over fixed guideway to	815	.Including vertically swinging
	reorient article		load support
783	.Orienter has article gripping	816	.Of reorienting article
	means	787	MISCELLANEOUS
784	.Orienter having article-		
	supporting surface movable		
	relative to article		
785	LOAD ENGAGING STRUCTURE OF	CROSS-	REFERENCE ART COLLECTIONS
	ELEVATOR OR HOIST DEVICE WITH		
	LOAD HANDLING FEATURE	922	ASSOCIATED WITH FORMING OR
800	PROCESS		DISPERSING GROUPS OF
801	.Of moving intersupporting		INTERSUPPORTING ARTICLES
	articles into, within, or from		(E.G., STACKING PATTERNS,
	freestanding, orderly layered,		ETC.)
	or mutually stabilizing	903	.With article-supporting fluid
0.00	orderly group		cushion
802	Of stacking	923	.Including support for group
803	.Of loading or unloading marine	924	Vertically shiftable
	system	925	Shifted by change in weight
			thereon

926	Shifted by article responsive means	939 .Including wafer charging or discharging means for vacuum
927	.Including means for supplying pallet or separator to group	chamber 940 .Wafer cassette transporting
928	Recirculates emptied pallet or separator	941 .Includes means for gripping wafer
929	.Including means for collecting emptied pallet or separator	
930	.Manual step utilized	
931	.Bricks	FOREIGN ART COLLECTIONS
932	.Audio or video cassettes	
933	.Group formed or dispensed by reversible apparatus	Any foreign patents or non-patent litera-
934	.Nonconforming article diverted	ture from subclasses that have been
900	.Adjust to handle articles or groups of different sizes	reclassified have been transferred directly to FOR Collection listed below.
901	.Including article counter	These collections contain ONLY foreign
902	.Including control for pattern of group	patents or nonpatent literature. The parenthetical references in the Collection titles refer to the abolished subclasses
904	.With means to apply adhesive to article	from which these Collections were derived.
905	.Having geneva drive for apparatus	
906	.With article flap deflector	
907	.Including means pressing against top or end of group	FOR CLASS-RELATED FOREIGN DOCUMENTS FOR 100 PROCESSES (414/786)
908	PERFORATED ARTICLE HANDLING	FOR 101 APPARATUS FOR CHARGING A LOAD
909	REMOTE CONTROL HANDLERS	HOLDING OR SUPPORTING ELEMENT
910	HOLLOW CYLINDER HANDLERS	FROM A SOURCE, AND MEANS FOR
911	ROLL HANDLERS	TRANSPORTING THE ELEMENT TO A
912	COMBINED OR CONVERTIBLE	WORKING, TREATING, OR
	IMPLEMENTS	INSPECTING STATION (414/222)
913	HANDLERS WITH SPRING DEVICES	FOR 102 .Supply source includes member
914	HANDLING VEHICLES WITH OVERHEAD	capable of 360 degree
	GUARD FOR OPERATOR	revolution (414/223)
915	HANDLER-TYPE TOYS	FOR 103 .Supply source includes a chute
916	SHAFT MUCKING MACHINES	(414/224)
917	HANDLERS UTILIZING PARALLEL LINKS	FOR 104 .Load holding or supporting
918	TRANSMISSION-LINE GUIDE FOR A	element includes gripping means (414/225)
	SHIFTABLE HANDLER	FOR 105Including pivoted jaw (414/226)
919	VEHICLE-CARRIED STORAGE MEMBER	FOR 106 MOVABLE RACK HAVING SUPERPOSED;
	(E.G., PORTABLE SILO, ETC.) AND MEANS FOR ERECTING MEMBER FROM ATTITUDE DURING TRANSPORT	CHARGE SUPPORTING ELEMENTS, AND EXTERNAL MEANS FOR CHARGING OR DISCHARGING THE
	TO POSITION OF INTENDED USE	ELEMENTS (414/331)
920	HANDLING DEVICE ON TRACTOR UNIT	FOR 107 .Nongravity type (414/416)
921	HANDICAPPED PERSON HANDLING	FOR 108Ejector (414/417)
935	ASSOCIATED WITH SEMICONDUCTOR	· · · · ·
006	WAFER HANDLING	
936	.Including wafer orienting means	
937	.Including means for charging or discharging wafer cassette	
938	Wafers positioned vertically within cassette	